

Date: Tue, 4 Oct 94 03:51:26 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: List
Subject: Info-Hams Digest V94 #1091
To: Info-Hams

Info-Hams Digest Tue, 4 Oct 94 Volume 94 : Issue 1091

Today's Topics:

Amateur Radio: Changes to Elmers Resource Directory
 ARLB077 Morse exemption denied
 ARLB078 Tech license renewals
 FT-290R Mk II FOR SALE
 GB2RS News 2nd October 1994
 HF rig turns off the VCR??
Interference from computer causing receive problems
 Need an FT-530 power plug??
 Power Connector for Kenwood Mobile
 toroid question
 Voltage in France
 Yaesu FT530 power plug

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sat, 1 Oct 1994 11:00:44 GMT
From: pschleck@gonix.com (Paul W Schleck KD3FU)
Subject: Amateur Radio: Changes to Elmers Resource Directory

Posted-By: auto-faq 3.2.1.2
Archive-name: radio/ham-radio/elmers/diff

(Note: This difference file is taken from the list body only.)

/bin/diff -c (last month's) (this month's)

*** /u/pschleck/faq/elmers/list.body.old Mon Aug 29 06:00:52 1994
--- /u/pschleck/faq/elmers/list.body.new Sat Oct 1 06:00:03 1994

*** 1,4 ***

! Amateur Radio Elmers Resource Directory (as of 08/29/94)

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- A -

+++++

--- 1,4 ---

! Amateur Radio Elmers Resource Directory (as of 10/01/94)

+++++

- A -

+++++

*** 131,136 ***

--- 131,182 ---

+++++

+ Rob Bellville N1NTE

+

+ rbellville@aol.com

+

+ PO Box 515

+ Millbury, MA 01527-0515

+

+ ATTENTION RADIO NEWCOMERS!

+

+ Are you interested in radio communications but don't have
+ enough information? Do you have questions but no one to
+ ask? Are you looking for a publication geared toward the
+ novice radio enthusiast?

+

+ ***** FIRST CONTACT *****

+

+ "First Contact" is a newly forming publication. An
+ electronically distributed email newsletter via the Internet
+ for the beginner. Here is a forum to get the information
+ you're craving. Get involved in this fascinating hobby!
+ Scanning, ham radio, shortwave listening, CB radio,
+ General Mobile Radio System (GMRS), etc. will all be
+ covered.

+

+ You input is essential to the success of this publication. I
+ need to know what you want to know and what subjects
+ you want covered in the newsletter. I will attempt to
+ publish on a monthly basis, possible bi-weekly if there is
+ enough interest.

+
+ The only "cost" on your part is to fill out a subscription form
+ completely (E-mail for a copy). A classified section is being
+ contemplated with a small fee to advertise. Hard copies
+ will be available to those without email access. Please
+ contact me for details.

+
+ Everyone is welcomed to subscribe whether you've never
+ turn on a radio or whether you're an old-timer. I am
+ looking for authors to contribute short articles on the
+ subjects you request.

+
+ So let's get "First Contact" off to a good start! Get your
+ radio information via email. Subscribe NOW!

+
+ ++++++
+

Bob Billson, KC2WZ
21 Bates Way
Westfield, NJ 07090

Internet: bob@kc2wz.bubble.org
UUCP: ...!uunet!kc2wz!bob

*** 662,677 ***

fielddorg-l (ARRL Field organization discussions)
ham-tech (Untamed technical discussions about the hobby)
fox-list (local Boston stuff - T-hunting)

To join any or all of the above:

Send a message to: majordomo@netcom.com
In the body of the message, type: subscribe list_you_want

The Club also has a World Wide Web Home Page. The address is:
<http://www.acs.oakland.edu/barc.html>

! You will need lynx, www, or Mosaic to view it. Ask me for more details
about this.

+
+ ++++++
--- 708,733 ---
fielddorg-l (ARRL Field organization discussions)
ham-tech (Untamed technical discussions about the hobby)
fox-list (local Boston stuff - T-hunting)
+ qrp-l (QRP, or low power, radio, previously maintained by Bruce
+ Walker at think.com)
+ arrl-exam-list (amateur radio license examinations scheduled in the US and
+ in some foreign areas.)
+ arrl-ve-list (ARRL VE Announcements, run by ARRL VEC Bart Jahnke)

To join any or all of the above:

Send a message to: majordomo@netcom.com

In the body of the message, type: subscribe list_you_want

+ Ham Radio and More, the radio show carried live every Sunday (6pm - 7pm
+ EST) on the Talk America Radio Network, now has a World Wide Web home page.

+

+ The URL is: <http://www.acs.oakland.edu/barc/ham-more/ham-more.html>

+

The Club also has a World Wide Web Home Page. The address is:

<http://www.acs.oakland.edu/barc.html>

! You will need Lynx, WWW, or Mosaic to view them. Ask me for more details
about this.

+++++

*** 974,979 ***

--- 1030,1038 ----

* Contributing Editor - QST Magazine - Exam Info column

* On-the-air interests: VHF/UHF/SHF SSB/CW Weak Signal Operating and Contests

+ See the entry for Scott Ehrlich for information about receiving

+ ARRL VE announcements and examination schedules via E-mail.

+

+++++

- K -

+++++

*** 1053,1058 ***

--- 1112,1148 ----

+++++

+ Ian Klufft KD6EUI PP-ASEL

+ iklufft@thunder.sbay.org (home) iklufft@oes.amdahl.com (work) Santa Clara, CA

+

+ Maintainer of rec.radio.amateur.misc and rec.radio.cb FAQ lists

+

+ Please direct all FAQ submissions, feedback, and administrivia to

+ hamradio-faq@klufft.com or cb-faq@klufft.com.

+

+ As with any volunteer effort, new volunteers are often needed. We need

+ new editors to post the above FAQ's. Preferably this should be

+ someone who has enthusiasm for hobbyist radio, experience with UseNet, and

+ the ability to work with the other editors. No single person can know

+ all the various aspects of these diverse hobbies so the editorial review

+ groups are intended to make a greater combination of experience.
+
+ The FAQ is currently posted with the AUTO-FAQ software, which is
+ written in PERL. So it would be a plus for volunteers to post the
+ FAQ to have PERL installed on their system and be able to use "cron"
+ or "at" so that postings can go unattended.
+
+ Anyone who wants to make their contribution to the Net as a volunteer
+ should contact one of the above administrivia addresses.
+
+ A mailing list for rec.radio.amateur.* FAQ and Netiquette posting
+ maintainers, as well as anyone with a sincere interest in helping
+ keep the rec.radio.amateur.* newsgroups the friendly and useful
+ forums they are today, is also available. To subscribe, send E-mail
+ to rra-wg-request@amdahl.com.

+ ++++++

+ Steven M. Knapp KA9QOA Computer Engineering Senior
+ sknapp@iastate.edu Vice President Cyclone Amateur Radio Club
+ Iowa State University; Ames, IA Durham Center Operations Staff

+ *****

+ *** 1438,1443 ****

+ --- 1528,1537 ----

+ N1AAC

+ regnad@gnu.ai.mit.edu

+ [Elmers List Editor's Note: Does anyone know what the current status of
+ the Boat-Anchors mailing list is? I've heard rumors that it has been
+ having technical/maintenance problems.]

+

+ ++++++

+ - Q -

+ ++++++

+ *****

+ *** 1484,1489 ****

+ --- 1578,1604 ----

+ ++++++

+ Peter Reynolds reynolds@stc.nato.int CompuServe: 100276,1340
+ voice: +31-70-314-2401 fax: +31-70-314-2111 radio: KE4BAD
+ Senior Scientist, Radio Branch, Communications Division
+ SHAPE Technical Centre, PO Box 174, 2501CD The Hague, The Netherlands

+

+ I am very lucky in that I earn my living in radio communications, so my
+ expertise is fairly broad (but not focused on amateur techniques only):

+

+ Modulation types - FSK, PSK, MSK
+ Error control - various types of ARQ and FEC systems
+ RF - Antennas, HF propagation
+ Networking - TCP/IP over HF
+ Frequency bands: VLF, LF, HF, VHF, UHF, SHF
+
+ This is a very brief synopsis of the areas that I have dealt with over
+ the years. I always enjoy discussing and researching a communications
+ problem so if you don't see it listed above drop me a line anyway,
+ especially if you happen to be in Europe.

+
+ ++++++

James J. Richards

richardsjj@oa.frc.com

*** 1685,1690 ***

--- 1800,1823 ----

+++++

+ Tom Sefranek WA1RHP

+

+ sefranek@osystems.com

+

+ ARRL & W5YI VE, ARRL TA, ARRL Instructor/Elmer

+

+ Power supplies,

+ Antennas/Transmission lines,

+ Amplifiers,

+

+ I don't have as much spare time as I did at MIT,

+ but I can (via E-Mail) answer questions, etc.

+

+ I'm also on 24 hrs as wa1rhp@wa1rhp.ampr.org (TCP/IP)

+ wa1rhp%wa1phy@switch.bedford (AX.25)

+

+ ++++++

+

Mike Shirley - WB6WUI

mikey@slc.cts.com

GEnie: SLIC

PO Box 460 Lakeside, CA 92040 USA

PGP v2.1 Public Key Available

*** 1932,1955 ***

administration.

+++++

- - W -

- ++++++

! --Bruce Walker WT1M (bruce@think.com)

! Chuck Adams K5FO (adams@chuck.dallas.sgi.com)

! The QRP Internet mailing list is open to all topics relating to low-power
! amateur radio operation. Example topics: portable operation, equipment
! design and construction, solar and battery power, QRPP, contesting,
!

! The mailing list address is QRP@Think.COM; mail to that address will be
! sent to everyone on the list without human intervention. There is also an
! administrative address QRP-Request@Think.COM which will be monitored by the
! list maintainer(s); please use that for such requests as adding or removing
! yourself from the list, questions about the FTP access, etc.

- ++++++

-

John Welch N9JZW, NNNOWYZ
jjw@seastar.org

--- 2065,2099 ----

administration.

++++++

! Frank E. van Vliet PA3FAQ

! vanvliet@dutette.et.tudelft.nl

!

! I am willing to answer questions about:

!

! FILTERS integrated,
! distributed,
! lumped,
! active etc.

!

! MICROWAVES designing power amplifiers,
! low noise amplifiers,
! mixers etc.

!

! (Email questions are preferred)

!

! Frank E. van Vliet :-)

! Delft University of Technology

! Faculty of Electrical Engineering

! Postbus 5031

! 2600 GA DELFT

! The Netherlands

!

! ++++++

! - W -

! ++++++

John Welch N9JZW, NNNOWYZ
jjw@seastar.org

--

73, Paul W. Schleck, KD3FU

pschleck@gonix.com (personal mail)
elmers-request@gonix.com (Elmers List administrivia)

Date: Mon, 03 Oct 1994 17:26:09 EDT
From: w1aw@arrl.org
Subject: ARLB077 Morse exemption denied

SB QST @ ARL \$ARLB077
ARLB077 Morse exemption denied

ZCZC AG42
QST de W1AW
ARRL Bulletin 77 ARLB077
From ARRL Headquarters
Newington CT October 3, 1994
To all radio amateurs

SB QST ARL ARLB077
ARLB077 Morse exemption denied

The FCC has denied a petition that proposed exemptions from Morse code exams for people age 65 and older.

Guy A. Matzinger, KB7PNQ, argued in his petition that old age results in diminished faculties, and equated those people 65 and older with the severely disabled in terms of passing a CW exam. He proposed the exemption for speeds above 5 WPM.

The FCC said that similar petitions had been denied in the past, because the current Amateur Radio license structure was based on "the desires of the amateur service community," based on thousands of comments on previous petitions. The Commission also noted that its rules already provide for Morse code exemptions for certain

recognized disabilities.

Matzinger introduced the results of a survey he conducted that said 63 percent of those he surveyed supported such an exemption. The survey, the FCC said, provided an age profile of those surveyed but did not say how many people were surveyed.

Although the petition got the usual public notice, the FCC said it received no comments on it.

Matzinger is a 67-year-old Technician class licensee who lives in Cheney, Washington.

NNNN

/EX

Date: Mon, 03 Oct 1994 17:28:53 EDT
From: w1aw@arrl.org
Subject: ARLB078 Tech license renewals

SB QST @ ARL \$ARLB078
ARLB078 Tech license renewals

ZCZC AG43
QST de W1AW
ARRL Bulletin 78 ARLB078
From ARRL Headquarters
Newington CT October 3, 1994
To all radio amateurs

SB QST ARL ARLB078
ARLB078 Tech license renewals

If you hold a Technician class license issued before March 16, 1991, then you automatically are a Technician licensee with HF privileges (a 'Tech Plus').

In some recent instances the FCC has processed the renewal or modification of such a Tech Plus license but has mistakenly issued a 'Technician' (no-code) license. (Since June 8, 1994, new and renewed Tech Plus licenses have been clearly labeled as such).

If this has happened to you, do the following:

Write to the FCC, explaining the situation, including your current license status, with effective date. Include copies of both your 'before' and 'after' licenses.

Chris

Chris Cox W0/G4JEC
Network Analyst
North Memorial Medical Centre
3300 Oakdale Avenue North
Robbinsdale, MN 55422

chrisc@Central.NMMC.Com
NIC Handle: CC345
Tel: (612) 520-7321
Fax: (612) 520-5237

Europeans consider 100 miles a long way.
Americans consider 100 years a long time.

Date: Mon, 3 Oct 1994 13:14:49 -500 CDT
From: pwalker@mbi.moody.edu (Paul D. Walker II)
Subject: HF rig turns off the VCR??

In article <Cx3sK1.EIp@tandem.com> hausman@patch.tandem.com (hausman_john) writes:

>Has anyone ever seen anything like this? My transmitter (on certain
>frequencies) causes the VCR to stop playing.

>The VCR is about a 5 year old RCA middle-of-the-line model.
>It is located only a few feet from the transmitter (in
>different rooms sharing a common wall). It would be
>difficult to re-locate either transmitter or VCR. In our
>old house, both units operated in relative peace (minor
>snow). While some (including me) might consider causing the
>VCR stop to be a feature, not a bug, my daughter disagrees. ;-)

>Any thoughts on things to try?

Don't know what to try, but when I set my VHF mobile station up (internal
groundplane antenna) and keyed the mic at 50 watts I found that I could turn
my 3 year old RCA TV off from downstairs. I now just run 5-25 watts -- except
when I think the kids have been spending too much time upstairs. ;^)

Paul Walker N9WHG
pwalker@mbi.moody.edu

Date: Mon, 3 Oct 1994 17:55:44 GMT
From: dtiller@cscsun.rmc.edu (David Tiller)
Subject: Interference from computer causing receive problems

Russ Blaine (rblaine@max.tiac.net) wrote:

: My friend has a CB radio that works fine - when his computer is off. When
: he turns the computer and monitor on, the static and hiss level on his
: radio go way up, making transmissions very hard to hear and some almost
: indiscernable.

: Questions:

: How can we get rid of this?

: 1) Would something like a lead box around the actual CB radio eliminate
: this?

Lead wouldn't be a good choice. It might shield from Gamma rays, but as
a conductor it isn't all that great. To prevent RF infiltration, you want
the best conductor you can get - usually copper- or silver-based paint or
braid to seal the enclosure.

: 2) Would a lead box around the computer eliminate this?

No. You'd never be able to move it again, though.

: 3) Is it the antenna's fault (we're using a homemade 1/2 wave dipole
: mounted vertically)?

It's the antenna's fault (possibly) in that it's too close to the
computer. If you've got the coax and space, move it outside and away
from your computer. If you've got bad connections/open spots in the
coax, you're asking for trouble, too. What kind of coax is he using?
Decent stuff, or Rat Shack RG-58? The better the shielding on the coax,
the less signal infiltration you'll get.

: 4) Any suggestions as to where I can find sheets of lead (if that's the
: answer) and how to put it up?

Again, try to get some copper paint and braid to seal the cabinet. Ask
around for suggestions - I don't know of any brand names.

: The interference is not coming specifically from the monitor or computer,
: but both.

Yes, that's correct. Usually the worst radiators are cables connecting
pieces. Try ferrite beads/donuts on them, sometimes that'll help.

: Is the interference (apparently caused by electro-magnetic fields from
: the monitor and computer, right?) getting picked up by the antenna, the
: radio itself, or both?

It could be both, depending on how well (or poorly) they're shielded.

Try connecting a PL-259 with a 47ohm resistor (or a good dummy load) across the CB. Listen and see if you've still got interference. If so, the radio itself is getting RF into it. If not, it's either the coax or the antenna's proximity to the computer.

--

David Tiller	Network Administrator	Voice: (804) 752-3710	
dtiller@rmc.edu n2kau/4	Randolph-Macon College	Fax: (804) 752-7231	
"Drunk, [Beowulf] slew no	P.O. Box 5005	ICBM: 37d 42' 43.75" N	
hearth companions."	Ashland, Va 23005	77d 31' 32.19" W	

Date: 3 Oct 1994 18:21:01 GMT
From: pvj@hprnd.rose.hp.com (Paul Jacobson)
Subject: Need an FT-530 power plug??

I came across a batch of these plugs for the FT-530. They are a perfect fit and better yet the plug is at a right angle allowing the wire to lay off to the back side of the radio. It also keeps the wire/plug from wearing out from movement. They are high quality and have about 3' of wire on each plug. If you are interested in one let me know. I don't want any money for them as I got them dirt cheap. Any wants please reply to my Email.

Paul Jacobson KC6JQT

Date: 1 Oct 94 08:49:57 EST
From: clmorgan@miavx3.mid.muohio.edu (Carl Morgan)
Subject: Power Connector for Kenwood Mobile

In article <199409281835.LAA25782@ucsd.edu>, milway@tecnet1.jcte.jcs.mil writes:
> I want to wire the power connection for my Kenwood into all of my vehicles,
> allowing easy removal and switching between them. I have looked for the
> DC Power connector at several stores and at connector vendors at recent
> Hamfests.

< stuff zapped >

The only place I know to find these is on an accessory cable purchased from Kenwood or Yaesu. (Yaesu uses them on some of their commercial rigs)

I replaced mine with Molex, 2-pole, .093"-pin connectors. They are inexpensive, easy to work with, and highly reliable. It is the first thing to be done to a new rig ... after making sure it works, of course.

Sorry, no help on the Standard.

73 >< Carl
K8NHE

Date: 4 Oct 1994 00:16:55 GMT
From: royle@tek4.cse.tek.com (Roy W Lewallen)
Subject: toroid question

>I hope this is not a completely stupid question:
>I have been building a qrp rig and was wondering
>about how to wind the toroids. If you need, say,
>12 turns, what are the differences between
>bunching the windings together tightly or evenly
>spacing them out. Ditto for a transformer,
>should you space out secondary turns over the
>primary ones or keep both wound tightly (and
>neatly) with the secondary atop (and centered)
>on the primary. I know there are plenty of
>variables, but could somebody give me a rough
>idea of the major factors involved here?
>tnx, beavis (beavis@io.com)

In transformers using high-permeability ferrite cores, it doesn't make much difference. The object is for the flux created by one turn to link with all the other turns. When the permeability is high, the flux is pretty well confined to the core, so the linking takes place regardless of where the turns are.

With low-permeability materials such as type 2 or 6 powdered iron, the flux isn't as confined, so pushing the turns together noticeably increases the inductance. Some measurements I did on an inductor of 8 turns on type 2 powdered iron showed a 43% increase in inductance when evenly-space turns were pushed together. The Q ended up about the same as an inductor of equal inductance with more turns evenly spaced around the core. If you have a second winding on this type of core, the amount of coupling between windings will be affected greatly by their positions on the core.

73,
Roy Lewallen, W7EL
roy.lewallen@tek.com

Date: 4 Oct 94 17:52:00 GMT
From: pve@dg13.cec.BE (VEKINIS Peter)
Subject: Voltage in France

The voltage in continental Europe is 220V, spread over the two wires. That is, it is 110V per phase with respect to ground. You cant really use 110V from a phase and ground because there are trip circuits looking at leakage current and turn the main CBs off (only in modern houses however).

The frequency is 50Hz.

I built a house in Brussels and had it wired with two separate circuits, both 220V and 110V. The 110V, is based on a transformer of 1KW that divides 220V by 2. I then get 110V at 50Hz. The only effect this has is to cause certain 60Hz devices to burn, namely, and this is the only case, little wall plug chargers that are normally supplied with HTs (my Kenwood TH-21 charger burned). This is because at 60Hz less power is dissipated than at 50Hz, therefore the material the charger is made off can be less expensive thus burning at 50Hz (more heat).

There is no other difference these days, as most household items dont use the powerline frequency for anything (cheap Radio Shack power timers excempted - they use the 60Hz for timing purposes).

So what you do is to take a 110/220V transformer with you. They cost less than half price in the US. As an example, a 110V/220V 100W transformer was \$35.

Peter, KC1QF

Date: Mon, 3 Oct 1994 18:30:47 GMT
From: nickb@netcom.com (Nicholas L. Barbieri)
Subject: Yaesu FT530 power plug

: I have not been able to find a match to the coaxial power connector on
: the top of this radio. My Radio Shack either doesn't stock it or was out
: of stock. If anyone knows where this plug can be obtained at *reasonable*
: cost please let me know

I bought one at HRO Sunnyvale for \$7 with 4 feet of wire attached.

--

Nick Barbieri Amateur Radio: KB6QI
(nickb@netcom.com)
(nlb1@goldengate.rtc.sc.ti.com)
(408)247-4268

Santa Clara, CA, USA

Date: Mon, 3 Oct 1994 18:36:50 GMT
From: dtiller@cscsun.rmc.edu (David Tiller)

References<3607jh\$h02@panix.com> <Bgz3wcg.jsanfilippo@delphi.com>,
<1994Sep26.150322.26986@ucl.ac.uk>
Subject: Re: CABLE TV LEAKAGE

Redvers Llewellyn Davies (zcapl34@ucl.ac.uk) wrote:
: jsanfilippo@delphi.com writes:

: >Sorry I don't know the number, Frank, but most likely it's expressed in
: >microvolts per meter, which is electric field strength...for what it's
: >worth.

: On a similer vein... Cable TV in the UK uses frequencies from 40Mhz to 300Mhz.
: Under British law... If they are leaking onto our frequencies from the pipe
: it is thier responsibility. If we interfere with them (even TX on their
fundimental)
: it is their responsibility. Is that the same in the US ?

More or less. As long as we're legal, I think it's always their fault.
(unless I beam 1500W of 2m at a head-end amp!!! Protect against that...!!!)

--
David Tiller | Network Administrator | Voice: (804) 752-3710 |
dtiller@rmc.edu | n2kau/4 | Randolph-Macon College | Fax: (804) 752-7231 |
"Drunk, [Beowulf] slew no | P.O. Box 5005 | ICBM: 37d 42' 43.75" N |
hearth companions." | Ashland, Va 23005 | 77d 31' 32.19" W |

Date: 3 Oct 1994 13:34 CDT
From: tech14c@elroy.uh.edu (Brad Killebrew N5LJV)

References<Cx3HH4.7Co@pica.army.mil> <30CT199412100360@elroy.uh.edu>,
<36pfc0\$9kc@ivy.bga.com>
Subject: Re: Radio Shack Violation

John Said:

>Be forewarned, some will probably jump all over you for that comment
>there. It's been a muchly heated debate as to whether or not you can go
>for that first 10 minutes without identifying. You know, "well, yeah..
>the rules SAY that, but they don't MEAN that". I just ignore everyone

>and keep operating the way I operate, which has yet to find any
>complaints so far...

Really? I don't remember that debate. I've got a buddy that I talk to
on 40 meters every week who seems to be an authority on amateur radio.
He's been licensed since the 30's and knows all about the rules. I'll
run this topic past him and let you know what he says!

73 for now.

--

Brad A. Killebrew N5LJV, EMT-B	Student of Computer Engr Technology
President, University of Houston ARC	University of Houston, Texas
Internet: n5ljv@uh.edu	U of H Amateur Radio Club WB5FND
AMPRnet : n5ljv@sugarland.ampr.org	uharc@post-office.uh.edu
Packet : n5ljv@f6cnb.#setx.tx.usa.na	Box 85-T2, 4800 Calhoun, 77204-4083
AT&Tnet : 713-743-6676 Fax 743-4032	For info, finger tech14c@jetson.uh.edu

End of Info-Hams Digest V94 #1091
